CLAIMS

- 1. A compound semiconductor epitaxial substrate comprising a substrate, and a sub-collector layer, a collector layer, a base layer, an emitter layer and a contact layer(s) formed in this order on said substrate, said compound semiconductor epitaxial substrate having an oxygen-containing layer between said substrate and said sub-collector layer.
- 2. The compound semiconductor epitaxial substrate according to Claim 1, wherein said oxygen-containing layer is an $Al_xGa_{1-x}As$ (0 \leq x \leq 1) layer.
- 3. The compound semiconductor epitaxial substrate according to Claim 2, wherein said oxygen-containing layer has an oxygen concentration of 1 \times 10¹⁶ cm⁻³ or more.
- 4. The compound semiconductor epitaxial substrate according to Claim 2, wherein said oxygen-containing layer has an oxygen concentration of 1 \times 10¹⁶ cm⁻³ or more and 1 \times 10²¹ cm⁻³ or less.